Subject	Computer Science
Unit	KS4 Topic 2

Key Vocabulary	Definition
Binary	A representation using just 0,1, equivalent to electronic off and on.
Two's Complement	A way of representing positive and negative numbers in binary. The MSB is negative.
Denary	Base-10 numbers, used by people. 0123456789, 10
Hexadecimal	Base-16 numbers, easy to convert to and from binary. 0-9, then ABCDEF before 10.
Overflow	When the result of an addition needs more bits to store than are available.
ASCII	A way of representing characters typed on the keyboard as 7bit binary codes.
Bitmap	An image that is made up of coloured pixels.
Resolution	The number of pixels in an image, the level of detail.
Pixel	Picture element, an individual square of one colour that makes up part of an image.
Compression	Reducing the size of a file by looking for repeated patterns or removing data.
Kilobyte	1024 bytes – about one paragraph of text.
Megabyte	1024 Kilobytes – about one minute of music.
Gigabyte	1024 Megabytes – about half an hour of streamed video.
Terrabyte	1024 Gigabytes -
Sign and Magnitude	A way of representing positive and negative numbers using binary. The MSB is +/-.